



# SERVICE BULLETIN

from: TRIO-KENWOOD COMMUNICATIONS, INC.

TS-180S

#850

SUBJECT: TS-180S Low Pass Filter Optional Changes

DATE 8/24/81

supercedes bulletin dated 9/14/79

1. Transmitter ALC levels may be increased by these optional components changes. Check for correct component values when installing the CK-18 WARC kit.

On the LPF unit X51-1180-00 change:

7 MHz

C14 from 470pf to 390 (CM93D2H391J)  
C17 from 470pf to 390 (CM93D2H391J)

18 MHz & 21 MHz

C25 from 27pf to 39pf (CC45CH2H390J)  
C26 82pf 68pf (CC45CH2H680J)  
C28 82pf 120pf (CC45CH2H121J)  
C29 27pf 39pf (CC45CH2H390J)

24.5 MHz & 28 MHz

C30 from 18pf to 39pf (CC45CH2H390J)  
C34 18pf 39pf (CC45CH2H390J)

All capacitors should be 500V silver mica or disc ceramic, 5%.

ALC Adjustment. After these component changes, perform ALC alignments 4-4, 4-5, & 4-6 as listed in the Service Manual. Be sure to adjust to spec.; incorrect meter zero (4-4), output exceeding 95W (4-5), or failure to peak T1 (RF unit) & L15 (IF unit) (4-6) will result in low or no ALC and possible future damage to the power amplifier.

2. Fast protection with a linear amplifier. While working in the LPF unit, check the value of C73 (base of Q1). If it is 1pf, change to a 3.3pf @ 25V DC tantalum (CS15E1E3R3M). This will compensate for slow linear amplifier relay closure.

NOTE: These changes are at the owners option and may not be performed in-warranty.

JEB/sh

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